METHOD AND SYSTEM FOR MANAGING CONTRACTUAL RISK

BACKGROUND OF THE INVENTION

[0001]

The described technology relates generally to analysis of contractual terms and particularly to a computer system that manages the identification, tracking, and approval of high-risk contractual terms.

[0002]

Many companies and their customers use very detailed written contracts to specify the terms of their agreements to provide products or services. These contracts often need to be tailored to meet the specific needs of the customer. Large companies may have thousands of customers each with multiple contracts relating to various products and services that are provided by that company to the customer. A company, of course, wants to ensure that the terms of the contract do not expose the company to unnecessarily high risks. For example, a customer may propose a delivery date of six months after the contract is executed and propose that the company pay significant penalties for delayed delivery. The company's representative who is negotiating with the customer may not realize that, based on recent experience, a six-month delivery period is unrealistic. If the company were to agree to the proposed term, then the company would likely incur the significant penalties.

[0003]

To minimize the chances of entering into contracts with such high-risk terms, companies often have a contract review process that allows for a risk assessment to be made before each contract is executed. A company typically has a risk assessment team whose job it is to meet periodically and assess the risks associated with each contract. Before the risk assessment team meets, several reports may be manually generated by risk assessment analysts who try to point out the high-risk terms associated with each contract. The company may have a risk assessment analyst for each possible risk type. For example, a

company may have both a financial risk assessment analyst whose job it is to identify whether the financial terms present a high risk and a choice of law risk assessment analyst whose job it is to identify whether the choice of law in a particular venue presents a high risk. The risk assessment analyst may also suggest ways in which the terms of the contract can be modified to reduce the risk. In some cases, multiple risk assessment analysts are required to approve a particular variation. When the risk assessment team meets, it analyzes the various risk assessment reports and determines whether the contract is acceptable, acceptable with modifications, or unacceptable. The majority of the proposed contracts may use only standard contractual terms and thus are acceptable. The risk assessment team may, however, devote a significant amount of time deciding whether such proposed contracts are acceptable. In addition, each risk assessment analyst may apply different standards when assessing the risk of a term, may present their report in a very different format. may suggest very different modifications to the proposed contracts, and so on. Because of this lack of uniformity and because the reports are generated manually, it is difficult and time-consuming to assess the risk of proposed contracts.

[0004]

In addition, because sometimes anyone from a team of risk assessment analysts could approve a term, it is also sometimes difficult to track which risk assessment analyst gave the approval for a term and when they did so. Moreover, training new risk assessment analysts is often done manually and is therefore time-consuming and on an ad hoc basis, resulting in inefficient and sometimes inconsistent training.

[0005]

It would be desirable to have a risk assessment system that would help automate the process of assessing the risk of proposed contracts and projects in general, would provide uniformity in risk assessment, and would help speed up the process of risk assessment.

BRIEF DESCRIPTION OF THE DRAWINGS

- [0006] Figure 1 is a display page used to collect information about a proposed contract in one embodiment.
- [0007] Figure 2 is a display page used to collect information about risk factors associated with a particular proposed contract in one embodiment.
- [0008] Figure 3 is a display page used to collect information about a proposed contract and about approval of high-risk terms of the proposed contract in one embodiment.
- [0009] Figure 4 is a display page used to collect information about the person responsible for a proposed contract in one embodiment.
- [0010] Figure 5 is a display page illustrating a sample risk report for a proposed contract in one embodiment.
- [0011] Figure 6 is a block diagram that illustrates components of the contractual risk management system in one embodiment.
- [0012] Figure 7 illustrates a database schema for the contractual risk management system in one embodiment.
- [0013] Figure 8 is flow diagram illustrating a request to input a proposed contract in one embodiment.
- [0014] Figure 9 is a flow diagram illustrating the processing of a request to input a proposed contract in one embodiment.
- [0015] Figure 10 is a flow diagram illustrating a request for a contractual risk report in one embodiment.
- Figure 11 is a flow diagram illustrating the processing of the generate report component in one embodiment.
- [0017] Figure 12 is a flow diagram illustrating an approval of a variation of a proposed contract in one embodiment.
- [0018] Figure 13 is a flow diagram illustrating the processing of an approval of a variation of a proposed contract in one embodiment.

DETAILED DESCRIPTION

[0019]

A method and system for managing risk factors associated with a contract is provided. In one embodiment, the system receives information related to a contract. The contract information includes an indication of one or more variations to the contract. The system identifies an approver for each of the risk variations identified in the contract or one or more variations from a standard form of contract. The approver may be an individual or a group of individuals. The system then coordinates reception of approvals of the variation by the identified approver or approvers. When all approvals have been received, the system indicates approval of the contract.

[0020]

The system incorporates an identification of risks and contract risk standards as established by the company for a specified type of contract. The system then identifies variations from such standards in a particular contract. Alternatively, the system identifies variations from a standard form of contract established by the company.

[0021]

In another embodiment, the sytem stores the contract information and identifies one or more risk factors associated with each variation. The system may then identify one or more premises associated with each risk factor. Upon receiving a request for a risk report, the system may generate a risk report, which may include at least part of the contract information and an indication of the risk factors and premises associated with the contract and its variations. After generating the risk report, the risk report may be transmitted to a user.

[0022]

Variations to a contract will often result in triggering one or more risk factors. The risk factors identify certain aspects (e.g., high-risk terms) of a contract that might provide undue risk to the company executing the contract. Table 1 illustrates a risk factor table with associated premises. The table contains an entry for a wide variety of risk factors and a short description of those risk factors. Table 1 also contains sample premises that are associated with each risk factor. Premises are pre-defined ways in which a risk factor could be triggered.

For example, risk factor number seven is "Governing Law," which is the governing law for the contract, and sample premises are governing law in other states, governing law outside the United States, and governing law outside common law countries. These premises would differ from the standard contract term of, say, the laws of the state of New York. One skilled in the art will recognize that many risk factors and premises exist and are within the scope of the invention.

[0023]

[0024] Table 1 – Risk Factors

#	Risk Factor	Description	Sample Premises
	Application of	Ability to use new	Customer approval required
1	Technology	technology in performance of agreement	No substitution
2	Contracted Performance	Performance guarantees	Liquidated damages not sole remedy Performance guarantee < 10% down
3	Contracting Entities	Selection of contractor and deal structure	Internal consortium Independent contractor
4	Contractor Responsibility	Shall not be more than specified in standard contract	Increased Contractor Responsibilities
5	Dispute Resolution	Dispute resolution mechanism, forum, and venue	Arbitration Outside U.S. Outside Europe
6	Excusable Delay	No liability to extented performance prevent by excusable delay	Strikes Wording Variation
7	Governing Law	Governing law for the contract	Other states Outside U.S. Outside common law countries
8	Indemnity	Hold harmless provision	Any other act/omission Customer property Wording deviation
9	Inventory	Ability to substitute refurbished and third-party parts	Limitation on right No right
10	Limitations on Liability	Carveouts for potential damages	Carveout for injury Carveout for punitive damages Monetary Caps
11	Model Variances	Deviations from standard	Model deviations

		model output	
12	Other	Other deviations	Other and a fact
13			Other deviations
13	Owner	Details customer	Permits and licenses
	Responsibility	responsibilities	Other
	Payment	Security and currency	Payment in other than U.S.
14			currency
			Payment security
15	Payment	Structure of payments	Quarterly payments
	Structure		Escalation clauses
16	Performance	Customer must provide	Inventory data
	Data	information on parts	Performance data
17	Precommis-	Initial factored fire hour	Precommissioning hours
	sioning Hours	computation	_
	Safety	Safety issues	Hazards review
18			Hazardous waste disposal
			Pre-existing conditions
19	Termination	Ability to control	Buy-out
	Provisions	termination	After a certain date
20	Title transfer &	Title transfer & delivery	Consistent delivery
	delivery		Parts
21	Total Price	Greater than a certain	Greater than a certain
		amount	amount
22	Unplanned	Cap on responsibility for	Cap greater than a certain
	Maintenance	unplanned maintenance	amount
23	New/Atypical	Work that is new or	New parts or software
	Activity	atypical for the	New environmental issues
	-	organization	
	Warranty	Warranty information	Exclusive remedy
24			Duration greater than a
			certain time
			Other warranties
L	1		1

[0025]

Figures 1-4 illustrate sample display pages of a contractual risk management system in one embodiment. Figure 1 is a display page used to collect general information describing a proposed contract and its proposed variations. The example contract relates to providing services for power generation equipment, such as gas and steam turbines. One skilled in the art will, however, appreciate that the contractual risk management system can be used to manage the risks associated with contracts in virtually any industry or profession, including contracts for both goods and services. The display page 100 includes selection tabs 122. The selection tabs allow the user to choose the functionality

of the display page by selection either the contract tab, the terms & conditions tab, the variation tab, and the person details tab. When a user selects a selection tab, the contractual risk management system displays a display page through which the user can enter data relating to the type of tab selected. In the embodiment illustrated in Figure 1, the contract tab is selected, allowing the user to enter data relating to the proposed contract.

[0026]

Display page 100 includes a customer name field 102, an add customer button 104, a contract name field 106, and an add contract button 108. The customer name field is a drop-down list that allows the user to select a customer from a list of customers in the contractual risk management system. The add customer button will activate an add customer page or dialog box that allows the user to input a new customer into the contractual risk management system if the desired customer is not found in the customer name field. The contract name field is a drop-down list that allows the user to select a contract from a list of contracts in the contractual risk management system. In one embodiment, the contract name field lists proposed and/or existing contracts with the customer identified in the customer name field. The add contract button will activate an add contract page or dialog box that allows the user to input a new contract into the contractual risk management system if the desired contract is not found in the contract name field. In an alternative embodiment, new contracts and new customers may be automatically entered into the contractual risk management system from another system without need for manual input by a user.

[0027]

Display page 100 also includes a risk factor name box 110, a selected premise box 112, a risk factor description box 114, a risk factor selection field 116, an available premise box 118, and a new risk factor description box 120. The risk factor name box lists risk factors associated with variations that have been proposed for the contract selected in the contract name field. For example, in display page 100 the risk factors associated with the proposed contract variations are governing law, dispute resolution, and excusable delay. The selected premise box displays the selected premises associated with the risk

factor selected or highlighted in the risk factor name box. In one embodiment, one risk factor is highlighted in the risk factor name box, and all of the premises that have been selected by a user related to that risk factor are displayed in the selected premise box. The risk factor description box includes descriptive information concerning the contracting standards of the company and the risk factor selected in the risk factor name box, and may also include information about any premises selected for that risk factor as displayed in the selected premise box. The risk factor selection field, the available premise box, and the new risk factor description box assist a user in selecting new risk factors and premises for the selected contract. The risk factor selection field allows a user to select a new risk factor from a drop-down list. The available premise box displays all of the available premises for the risk factor selected using the drop-down list of the risk factor selection field, and also allows the user to select one or more of the available premises. The new risk factor description box displays information about the selected risk factor and/or the selected available premise. displayed information explains the justication for a particular risk factor and/or premise and the contracting standards for the company related to the justification, and also improves the training process for new employees.

[0028]

Display page 100 also includes a contract name field 124, a customer name field 126, identification number fields 128, a director field 130, a contract manager field 132, an original date field 134, and a close date field 136. The contract name field allows a user to input a name for the contract, while the customer name field allows a user to input the name of the other contracting party or customer. The identification number fields, in one embodiment, provide for a unique identification number or numbers for a contract. The director field and the contract manager field are drop-down lists that allow a user to select the names of a person or persons who have responsibility for the identified contract. In the depicted embodiment, the contract manager indicates the person with primary responsibility for the contract and the director field indicates the person with the business responsibility for the contract negotiation. The original date field

includes the date that the contract approval process was initiated in the contractual risk management system. The close date field is a drop-down list that allows a user to select a close date for the contract, which is the date which the contract is intended to be signed, providing the worst-case deadline for receiving approvals from all necessary parties.

[0029]

Figure 2 is a display page used to collect information about risk factors associated with a particular proposed contract in one embodiment. Display page 200 is activated when a user selects the terms & conditions tab of the selection tab. Display page 200 includes selection tabs 122, a customer name field 102, an add customer button 104, a contract name field 106, an add contract button 108, a risk factor name box 110, a selected premise box 112, a risk factor description box 114, a risk factor selection field 116, an available premise box 118, and a new risk factor description box 120. The operation of these tabs, fields, and boxes is substantially similar to the operation of the similarly named tabs, fields, and boxes described in relation to Figure 1.

[0030]

Figure 2 also includes a selected risk factor box 202 and a save button 204. The selected risk factor box provides a description and other information of the risk factor currently highlighted in the risk factor name box. In an alternative embodiment, the selected risk factor box instead lists all of the selected risk factors for the proposed contract and shown in the risk factor name box. The selected risk factor box includes an article column, a section column, a description column, a page number column, a point of contact column, a revision column, and a final reference column. The article column and the section column identify the location in the proposed contract where the variation is located so that the text of the variation can easily be found. The description column includes the name of the risk factor associated with the variation, and the page number further identifies the location of the variation in the proposed contract. The revision column identifies the latest revision of the proposed contract, and the final reference column specifies the location of the approved variation in the final version of the contract. The save button 204 allows a user to save all of the risk

factors, premises, user information, and other information that has been inputted upon selection of the save button.

[0031]

Figure 3 is a display page used to collect information about a proposed contract and about approval of high-risk terms of the proposed contract in one embodiment. Display page 300 is activated when a user selects the variation tab of the selection tab. Display page 300 includes selection tabs 122, a customer name field 102, an add customer button 104, a contract name field 106, an add contract button 108, a risk factor name box 110, a selected premise box 112, a risk factor description box 114, a risk factor selection field 116, an available premise box 118, and a new risk factor description box 120. The operation of these tabs, fields, and boxes is substantially similar to the operation of the similarly named tabs, fields, and boxes described in relation to Figure 1.

[0032]

Figure 3 also includes a premise box 302, a required approvals box 304, and a specific variation box 306. The premise box provides a description of the premise highlighted in the available premise box. Similarly to the function of the risk factor description box, this allows the user to understand the reasons underlying the premise to improve understanding of the premise and training of new employees. The required approvals box identifies all of the individuals or organizations that must approve the variation identified by the selected premise. In the depicted embodiment, for example, the Risk/Reward manager and the Technical Evaluation & Modeling Manager must both approve the variation of the contract. The specific variation box allows users to input the exact variation to the contract that has been proposed. For example, the premise could be identified as governing law outside the United States, and the specific variation could be Japanese law.

[0033]

In one embodiment, the user could select a new available premise by "double-clicking" or otherwise selecting the premise highlighted in the available premise box. This would cause the highlighted premise to appear in the selected premises box, and the risk factor associated with that premise would appear in the risk factor name box. This process allows a user to increase the number of

premises and risk factors associated with proposed changes in the standard contract.

[0034]

Figure 3 additionally includes an approver list 308, an approved list 310, an approval status indicator 312, a save button 314, a delete button 316, and a deal complete indicator 318. The approver list is a drop-down list of all of the individuals or organizations that are required to approve the selected variation to the contract in order to complete the contract. The approved list is a drop-down list of all of the individuals or organizations that have already given approval of the selected variation to the contract. The approval status indicator provides an indication of not approved, partially approved, or fully approved. If no approvals have been received an indication of not approved will be used, if some but not approvals have been received an indication of partially approvied will be used, and if all approvals have been received an indication of fully approved will be used. Accordingly, the approval status indicator may be used to view the current status of the selected premise in a rough fashion. The save button is used to save any changes made to display page 300. To approve a variation, an authorized individual would select the appropriate option of the approver list (e.g., their name or position) and then select the save button. The delete button may be used to delete a premise highlighted in the selected premise box. This allows proposed changes to the contact to be removed by a user. Once the last premise associated with a risk factor has been deleted, the risk factor is also deleted from the risk factor name box. The deal complete indicator is activated when all required approvals have been received and the contract is therefore ready for signature.

[0035]

In an alternative embodiment, conditional approvals may be used. By adding language to the specific variation box 306, an approver may condition an approval upon certain deletions, additions, or other changes to the contract. This provides another way of streamlining the approval process, as an approver may not need to repeatedly review a proposed contract.

[0036]

Figure 4 is a display page used to collect information about the person responsible for a proposed contract in one embodiment. Display page 400 is activated when a user selects the person details tab of the selection tab. Display page 400 includes selection tabs 122, a customer name field 102, an add customer button 104, a contract name field 106, an add contract button 108, a risk factor name box 110, a selected premise box 112, a risk factor description box 114, and a risk factor selection field 116. The operation of these tabs, fields, and boxes is substantially similar to the operation of the similarly named tabs, fields, and boxes described in relation to Figure 1.

[0037]

Figure 4 also includes name fields 402, a position field 404, a phone number field 406, e-mail field 408, an update button 410, and a main menu button 412. The name fields and the position field are used to identify the name and organizational position, respectively, of the person with responsibility for the selected contract. The phone number field and the e-mail field provide contact information for the person identified in the name fields. The update button may be used to save any changes made to the information entered or any new information entered on display page 400, and the main menu button returns the user to a main menu page without saving any information entered or changed on display page 400.

[8800]

Figure 5 is a display page illustrating a sample risk report for a proposed contract in one embodiment. This report provides a summary of the contract, the proposed variations to the contract and the risk factors and premises associated with each variation, and the status of each required approval. A display page 500 includes a contract information section 502, a risk factor section 504, a variation section 506, and an approval section 508. The contract information section provides information about the contract that is the subject of the risk report, such as the contract name, unique contract number, customer name, contract manager, etc. The risk factor section provides information about one or more risk factors associated with proposed variations in the contract, and also provides information about one or more premises associated with each risk factor. This includes

information about the current status of the proposed variation (e.g., not approved), the date that the information changed, and the identification of the person making the change. This allows the progress of a contract over time to be tracked, in addition to tracking the identity of the individuals approving a variation, changing information, etc. This information creates a persistent, auditable trail of the approvals required and obtained for each contract signed. The variation section includes the specific variation proposed for the contract. The approval section includes information about which required approvers have already given approval and which required approvers still have not given approval.

[0039]

The risk report of display page 500 provides a quick summary of the current status of a proposed contract, and in particular highlights the provisions of the contract that still need to be approved. The risk report of display page 500 also provides a history of the approval of a contract, identifying the persons who approved variations and when they made such approvals. These reports may be used by a risk assessment team or management to track the progress of a contract, the response times of individual personnel, or other aspects of the contract approval process. One skilled in the art will recognize that many types of reports are possible and within the scope of the invention. For example, any type of metrics report may be created, such as for tracking the length of time to receive each approval, comparing the contract approval process for different technologies, geographic regions, or approvers, etc. Additionally, any type of summary report may be created, such as reports that indicate which contracts include a particular variation, risk factor, or premise, reports that summarize contracts approved over a certain timeframe, etc.

[0040]

Figure 6 is a block diagram that illustrates components used to implement the contractual risk management system in one embodiment. The risk management server 602 and one or more user computers 606 are interconnected via a computer network 604, such as the Internet or an intranet. A database 608 may be in communication with the risk management server, or alternatively may be located within the risk management server. The computers may include a

central processing unit, memory, input devices (e.g., keyboard and pointing device), output devices (e.g., display devices), and storage devices (e.g., a hard drive, a CD-ROM, a floppy disk drive, etc.). The memory and storage devices are computer-readable media that may contain instructions for implementing the contractual risk management system. In addition, the data structures and message structures may be stored or transmitted via a data transmission medium, such as a signal on a communications link. Various communications channels may be used, such as a local area network, wide area network, or a point-to-point dial-up connection can be used. One skilled in the art will appreciate that the contractual risk management system can be implemented in other environments (in addition to the client/server environment) such as a single machine in which the contractual risk management software executes on a computer and accesses a database on the same computer.

[0041]

The risk management server includes an admin component 610, a web engine 612, an input component 614, a generate report component 616, a user database 618, a contractual risk component 620, and risk factor tables 622. The admin component allows an administrator to perform administrative tasks such as adding or deleting users, modifying data in the database, or defining permissions. The web engine receives requests, such as HTTP requests, from user computers and invokes the appropriate component of the contractual risk management system to service the request and provide responses, such as HTTP responses. The input component coordinates the entry of the contract information, risk factor and premise information, and variation information for proposed contracts. The input component stores the data in the database. Each contract may be identified by a unique project identifier. The contractual risk component manages the risk factors, premises, and variations for each proposed contract, as well as approvals or disapprovals of proposed variations. The generate report component compiles the contractual risk data by searching the database and generates the risk reports and other reports for the risk assessment team and management. The user database may contain an entry for each user authorized to use the contractual risk managemnet system. The database may include a user name and password of each user for authentication and authorization purposes. Each user may have different levels of authority. For example, one user may have authority to create a new contract, while another user (e.g., an in-house counsel) may have authority to approve or disapprove for a certain risk factor or premise (e.g., choice of law outside the United States). The risk factor tables may include various tables that identify risk factors and premises and may be substantially similar to Table 1 in one embodiment.

[0042]

Figure 7 illustrates a database schema for the contractual risk management system in one embodiment. Figure 7 includes a number of data structures or tables that represent a relational data model. One skilled in the art would appreciate that the database schema may be organized very differently depending on the design choice of the developers. Figure 7 only represents one possible logical organization of the contractual risk management sytem. The actual design of the database may take advantage of well-known techniques to meet the speed requirements, response time requirements, and other requirements of a particular implementation of the contractual risk system. In one embodiment, a Microsoft Access or Oracle database may be used. The database schema of Figure 7 includes a contract_master table 702 with entries that include a contract identification number and a number of entries related to that contract, including a customer identification number, a commercial leader identification, a contract name, a contract original date, a contract manager identification, a variation field, a contract close date, and an approved indication. The contract master table is linked to a customer table 704 with entries associating customer names with customer identification numbers. The contract master table is also linked to a person table 706 with entries associating name, position, and contact information with person identification numbers (which may be equivalent to a contract manager identification or commercial leader identification). The person table is linked to a login table 708 with entries containing authorization information such as password, status, and a first time login indicator for each

person identification. The person table is also linked to a position table 710 with entries associating position identifications and position names.

[0043]

The contract riskfactor table 712 has entries that map a contract to its selected risk factors. Each entry includes a contract identification (from the contract_master table) and a risk factor identification (from the risk factor table described below). The contract_riskfactor table also includes a general variation field, which includes a general description of the variation typically associated with a risk factor. In an alternative embodiment, the general variation field includes the text description input by a user. The contract_riskfactor table allows each contract identification to have more than one risk factor associated with it by providing multiple entries for each contact. The risk factor table 714 is linked to the contract risk factor table and includes an entry for each risk factor. Each entry maps to a risk factor name and a risk factor description. The risk factor table is also linked to a risk factor standard table 716. The risk factor standard table associates a risk factor identification with a standard term identification. The standard term identification is an identification of the particular standard term from the standard contract template associated with each risk factor. The risk factor standard table is linked to a standard contract table 718. Each entry in the standard contract table is associated with a standard term identification. The standard contract table is similar to a table of contents for the standard contract terms. With each standard term identification there is an article code, a section code, a standard term description, a page number, a person identification (from a link with the person table), a previous standard term identification, and a standard term revision. The article code, section code, and page number identify where in the standard contract the standard term is located, while the standard term description provides a text description of the standard term. The person identification provides the name of the person responsible for the standard term, the previous standard term identification identifies the standard term that the variation is based upon, and the standard term revision indicates the version number of the standard term used as a baseline.

[0044]

The contract_riskfactor_term table 720 is used to identify the location in contracts where variations are located. Each entry of the contract_riskfactor_term table includes a contract identification, a risk factor identification, and a standard term identification. Each entry of the contract_riskfactor_term table also includes a final reference, a final page number, a change date, and a standard/non-standard flag. The final reference and final page number indicate where in the final contract the variation is located. The change date indicates the date that the variation was last added or changed, and the standard/non-standard flag provides an indication of whether or not standard language was used in the contract.

[0045]

The contract_riskfactor_premise table 722 maps a contract to its selected risk factors and selected premises. Each entry includes a contract identification, a risk factor identification, and a premise identification. Each entry also includes a specific variation, a variation change date, and a user identification. The specific variation is the text of the specific proposed variation to the standard contract or a description of the text, and the variation change date is the date when the variation was entered into the system. The user identification identifies the person proposing the variation, which may be the contract manager in one embodiment.

[0046]

The contract_riskfactor_premise table is linked to the riskfactor_premise table 724 that maps risk factors to their premises. Each entry includes a risk factor identification, a premise identification, and an approver group identification. The approver group identification identifies the group necessary to approve a variation for a particular premise and risk factor. The approver_group table 726 has entries mapping approver group identifications and approver group names. The approver_group_position table 728 maps an approver group identification to a position identification. In one alternative embodiment, the approver_group table may be omitted and the riskfactor_premise table and the approver_group_position table are linked directly. The position identification includes a list of positions within an approver group (e.g., Risk/Reward Manager, In House Counsel, etc.). The riskfactor_premise table is also linked to a premise_catalog table 730, which

provides a catalog and description for premises. The premise_catalog table entries include a premise identification, a rank, a short description, and a long description. The rank identifies the rank of the premise within the list of premises associated with a particular risk factor. The short and long descriptions provide a summary or detailed description, respectively, of each premise.

[0047]

The contract_riskfactor_premise table also linked is to а contract_riskfactor_position table 732, where each entry contains a contract identification, a risk factor identification, a premise identification, and a position identification. This table is used to track the approvals that have been received for particular variations in order to create an auditable trail of approvals. The contract_riskfactor_position table also includes a person identification, an approval date, and a user identification. The person identification and user identification provide an identity of the person whose approval was received and the person who entered the information within the system, respectively. The approval date stores the date that the approval information was entered into the contractual risk management system.

[0048]

Figures 8-13 are flow diagrams illustrating processing of the contractual risk management system in one embodiment. Figure 8 is flow diagram illustrating a request to input a proposed contract in one embodiment. A user who wishes to enter a proposed contract into the contractual risk management system makes the request in order to seek the necessary approval for any variations from the standard contract, particularly with regard to high risk matters. In block 802, the user inputs user information, which may include a name, a user identification, a password, contact information, etc. In block 804, the user inputs basic information about the contract, which may include a contract name, a contract identification number, a date, a customer identification, a close date, a baseline contract, etc. Alternatively, some or all of the information in these blocks could be automatically entered based on pre-defined criteria. In block 806, the user inputs a risk factor (e.g., choice of law) associated with a proposed variation in the contract. In block 808, the user inputs a premise associated with the risk factor selected in block

806 (e.g., choice of law outside the United States, choice of law in a state besides New York). In block 810, the user inputs the specific variation desired in the proposed contract (e.g., choice of law in the province of British Columbia). In decision block 812, if all variations have been entered, the function continues at block 814; otherwise, the function continues at block 806. This allows the function to partially repeat so that multiple proposed variations may be entered. In block 814, the user inputs a save request or a delete request and the function then completes. The save request saves the inputted proposed contract while the delete request cancels the operation without saving the data.

[0049]

Figure 9 is a flow diagram illustrating the processing of a request to input a proposed contract by the input component in one embodiment. This function processes the request made by the user to input a proposed contract, as described in relation to Fig. 8. In block 902, the component receives user information and in block 904, the component receives basic contract information. In block 906, the component receives one or more risk factors associated with the proposed contract. In block 908, the component receives one or more premises associated with each risk factor. In block 910, the component receives the actual proposed variations associated with the specified risk factors and premises. In block 912, the component receives a request to save the received information. In one embodiment, the components receives all of the information simultaneously. In block 914, the component saves the contract and related information, which may be stored in a database, and the function then completes.

[0050]

Figure 10 is a flow diagram illustrating a request for a contractual risk report in one embodiment. The function of Figure 10 is used when a user who wishes to request a report from the contractual risk management system concerning a particular contract or group of contracts. In block 1002, the user inputs information about the contract, which may include a contract name, a contract identification number, or an indication of a range of contracts. In block 1004, the user optionally inputs authorization information, which may include a user identification and a pasword. In block 1006, the user selects a type of report.

One skilled in the art will recognize that many types of reports are possible and within the scope of the invention, including reports concerning the approval status of an individual proposed contract, metrics reports based on different approvals, dates, customer identifications, time to complete approval, geographic region, etc. In block 1008, the user submits the request, which may include the data entered in blocks 1002, 1004, and 1006. In block 1010, the function receives a generated results display page or other embodiment of the complete report. In block 1012, the generated results display page is displayed to the user and the function completes.

[0051]

Figure 11 is a flow diagram illustrating the processing of the generate report component in one embodiment. The generate report component begins processing when a user on a user computer requests a report, as described in relation to Fig. 10, or could begin automatically or at pre-determined times. In block 1102, the component receives contract information from the user and in block 1104, the component optionally receives authorization information from the user. In block 1106, the component receives information about the report desired by the user. In block 1108, the component searches the database based on the contract information and the type of report desired by the user. For example, if the user desired a report about the status of a proposed contract, the component would search the database for all entries related to that proposed contract. In block 1110, the component generates the report based on the information found in the database, and in block 1112 the component generates a results display page. In block 1114, the component transmits the generated results display page to the user computer and the processing of the component completes.

[0052]

Figure 12 is a flow diagram illustrating an approval of a variation of a proposed contract in one embodiment. The function of Figure 12 may be used by a user on a user computer who desires to review the pending approvals related to a proposed contract and to register his or her approval or disapproval of the proposed variations for which he or she has approval authority. In block 1202, the function transmits information to the contractual risk computer, where the

information may include user information, authorization information, and information identifying the contract at issue. In block 1204, the function receives a list of proposed risk variations in the contract. These proposed variations may, in one embodiment, be displayed to the user. In another embodiment, only the proposed variations needing approval from the user are received. In block 1206, the user selects their name or organization or provides another indication of their identity and the fact that they want to submit an updated approval status. In block 1208, the user selects a save button, which will register the user's approval of the changes to the contract. In one alternative embodiment, the user may selectively approve only some changes to the contract. In block 1210, the inputted information is transmitted to the contractual risk computer for processing, after which the function ends. The contractual risk computer may update the approval indicator to reflect the new approval (e.g., the contract would then be either "partially approved" or "fully approved").

[0053]

Figure 13 is a flow diagram illustrating the processing of an approval of a variation of a proposed contract as processed by the contractual risk component in one embodiment. The contractual risk component will process the approval information received from a user as described in relation to Figure 12. In block 1302, the component receives user information, authorization information, and information identifying the contract at issue from a user on a user computer. In block 1304, the component determines the proposed variations associated with the user, which may require searching the database. In block 1306, the component transmits the list of proposed variations to the user computer. In block 1308, the component receives a list of modifications to the proposed variations (e.g., approval) from the user computer. In block 1310, the component saves the modifications to the database and then completes.

[0054]

From the above description, it will be appreciated that although specific embodiment of the contractual risk management system have been described for purposes of illustration, various modifications may be made without deviating from

the scope of the invention. Accordingly, the invention is not limited except by the following claims.